CHARGE NUMBER: 2105

PROJECT TITLE: FILTER & CIGARET PROCESS DEVELOPMENT

PERIOD COVERED: APRIL 1 - APRIL 30, 1973

PROJECT LEADER: J. M. WASHINGTON

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DATE OF REPORT: MAY 14, 1973

I. EXTRUSION SYSTEMS DEVELOPMENT

Demonstration of #1 Extrusion Line is scheduled to be completed by the end of May. Fabrication and installation of electrical panels and equipment should be completed by mid-May. After satisfactory demonstration of the rewired line at 500 fpm, the line will be shipped to Louisville Manufacturing.

II. 100% GRANULAR SPACE FILL DEVELOPMENT

The Baumgartner vacuum-assisted, space-filling unit arrived from Switzerland. Damaged parts (a temperature controller and the space-filling foot) were returned for repair or replacement.

Design work on the 4-up vertical space-fill unit has been started again, and a design review is scheduled for mid-June.

III. "SPHERO-PORE A" PROCESS DEVELOPMENT

Mixing, metering and extrusion equipment for producing "Sphero-pore A" rods has been specified. Evaluation of the process elements will begin in late May. Split cavity molds were designed, but orders have been delayed until after the extrusion process has been evaluated. Samples of "Sphero-pore B" should be shipped by Monsanto by late May.

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IV. FLUTE BLOCKING

Blocking flutes in extruded filters is being investigated by G. Mathe. This technique would apply to all extruded fluted filter products.

V. SCULPTURED FILTER DEVELOPMENT

The final modification[1] to the breadboard unit was received the second week of May. This unit will be evaluated, and plans for the large scale former will be reviewed by the end of May.

VI. FLUSH FLUTED SINGLE FILTER CIGARET DEVELOPMENT (FFM-5)

Further work was done this month with the addition of Carbopol resin to our standard adhesive (PVA +3% PVP). These tests resulted in a processing efficiency of about 50% with Marlboro Lights tipping paper.[2] A heavy Hermetite white tipping (Dev. 664) was evaluated without success due to adhesive absorption.[3] Ecusta Paper Co. has supplied 5 new papers for evaluation, Hermetite Paper Co. has supplied 2 new papers, and Polymer Industries has supplied 2 new adhesives. A matrix of tests of these products and in-house samples is now underway.

REFERENCES

(1) J. F. Nienow, Notebook 5501, p. 27.

(2) H. Rapp, Notebook 5196, p. 87.
J. Nienow, Notebook 5501, p. 28.

(3) H. Rapp, Notebook 5196, pp. 88 & 89.

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